

## Supplemental Material

### **Low Levels of the Herbicide Atrazine Alters Sex Ratios and Reduces Metamorphic Success in *Rana pipiens* Tadpoles Raised in Outdoor Mesocosms (09-01418-ART)**

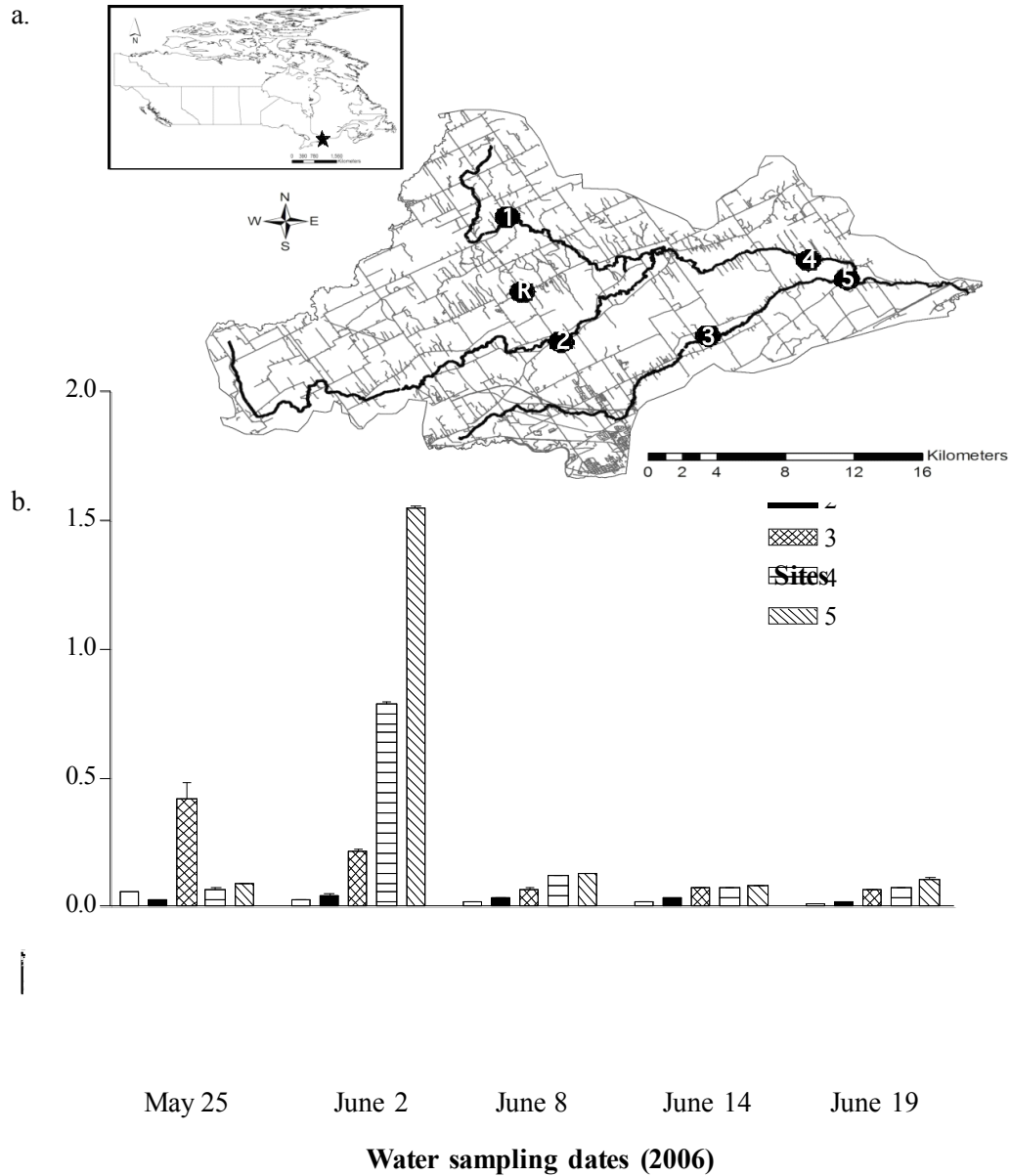
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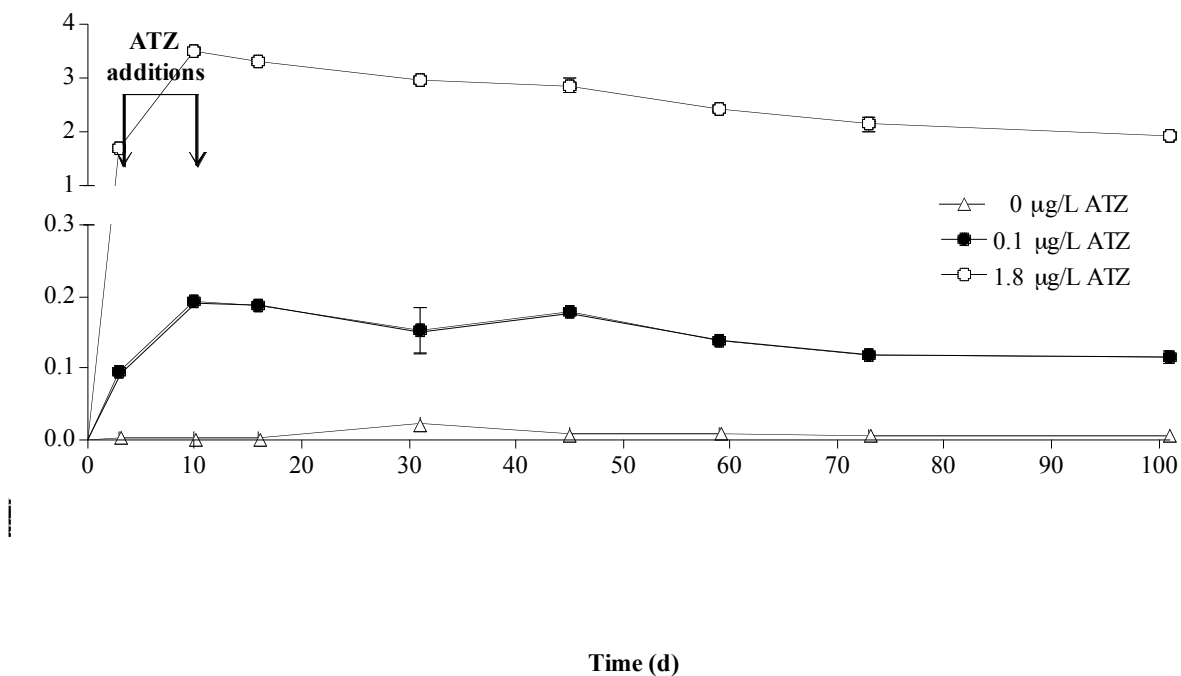
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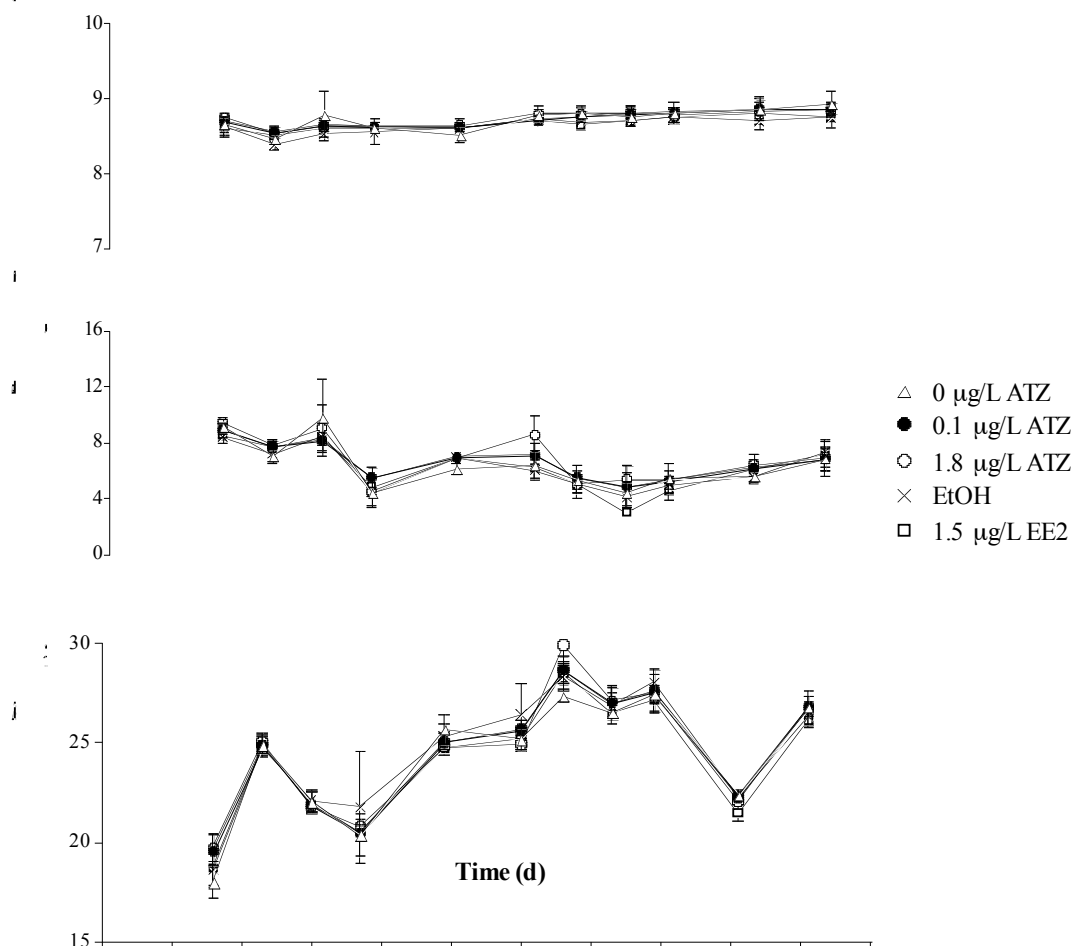
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**Supplemental figure 1. Concentration of ATZ in water samples collected in the Raisin River basin (ON, Canada) during spring 2006.** a) Water collection (n=2/site per date) was performed between May 25<sup>th</sup> and June 19<sup>th</sup>, 2006 at five different sites on the Raisin River (1-5). The reference site where the egg masses and metamorphic frogs were collected is indicated by the letter R. On the map of Canada (inset), the star indicates the studied site region. b) Concentrations of atrazine measured in water of each site were quantified using LC-MS/MS (minimal detection limit was 0.003 µg/L). Bars represent mean + SD.



**Supplemental figure 2. Concentration of ATZ detected in mesocosms during the exposure period.** Water collection (n=5/mesocosm per date) was performed between May 10<sup>th</sup> (day 1) and August 18<sup>th</sup>, 2006. Atrazine extractions were quantified using LC-MS/MS (minimal detection limit was 0.003 µg/L). Mean  $\pm$  SD are presented. The arrows show the two successive additions of ATZ done on May 12<sup>th</sup> and 19<sup>th</sup>, 2006. The Y-axis is broken. No significant differences among tanks within treatment were found per date (ANOVA;  $p > 0.05$ ). ATZ: atrazine.



**Supplemental figure 3. Monitoring of physicochemical parameters (pH, dissolved oxygen and temperature) in mesocosms during the exposure period.** Monitoring (n=2-5 mesocosms/treatment per date) was performed between May 25<sup>th</sup> (day 16) and August 18<sup>th</sup>, 2006. Measurements of pH, dissolved oxygen (mg/L) and temperature (°C) were recorded weekly using an YSI and a pH/K model probes. Mean  $\pm$  SD are presented. No significant differences among mesocosms within treatment were found (ANOVA;  $p \geq 0.85$ ). ATZ: atrazine, EtOH: ethanol; EE2: ethinylestradiol.